s/n: 10/700,068 date: 9-1-04

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1580 24 and fiber and (axis or (vertical same lateral)) 244 9 and 25 36 spherical with collimate with focus 31 (anamorphic adj lens).ti. 128 and (collimat\$5 same focus) 385 master adj oscillator adj power adj amplifier 10 25 and 30 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 10:5 USPAT; US-PGPUB; IBM_TDB 9/1/04 10:5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	4978 collimat\$5 with focus USPAT; US-PGPUB; IBM_TDB	9/1/04 10:4
244 9 and 25 USPAT; US-PGPUB; IBM_TDB 9/1/04 10:4 36 spherical with collimate with focus USPAT; US-PGPUB; IBM_TDB 9/1/04 10:5 31 (anamorphic adj lens).ti. USPAT; US-PGPUB; IBM_TDB 9/1/04 10:5 1 28 and (collimat\$5 same focus) USPAT; US-PGPUB; IBM_TDB 9/1/04 10:5 385 master adj oscillator adj power adj amplifier USPAT; US-PGPUB; IBM_TDB 9/1/04 15:4 10 25 and 30 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. USPAT 9/1/04 11:0 18217 optical adj coupl\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 14318 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 242 with focus\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 1 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 1 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 4 amorphic with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		9/1/04 10:4
36 spherical with collimate with focus 31 (anamorphic adj lens).ti. 128 and (collimat\$5 same focus) 385 master adj oscillator adj power adj amplifier 10 25 and 30 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 0 36 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		9/1/04 10:4
31 (anamorphic adj lens).ti. 1 28 and (collimat\$5 same focus) 385 master adj oscillator adj power adj amplifier 10 25 and 30 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	· · · · · · · · · · · · · · · · · · ·	9/1/04 10:5
1 28 and (collimat\$5 same focus) 385 master adj oscillator adj power adj amplifier 10 25 and 30 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5 863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	· · · · · · · · · · · · · · · · · · ·	
385 master adj oscillator adj power adj amplifier 10 25 and 30 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	•	
10 25 and 30 5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		•
5 ("5870417" "6058128" "6125222" "6188705" "6226311").PN. 18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		
18217 optical adj coupl\$5 114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		
114318 optical with (coupl\$5 or align\$5) 5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 0 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		
5863 optical with (coupl\$5 or align\$5) with lens with fiber optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 0 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	· · · · · · · · · · · · · · · · · · ·	
optical with (coupl\$5 or align\$5) with lens with fiber with collimat\$5 242 with focus\$5 0 36 with sperical with cylind\$5 1 36 with spherical with cylind\$5 4 amorphic with spherical with cylind\$5 0 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		
242 with focus\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 0 36 with sperical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 1 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 4 amorphic with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		3/1/04 11.0
0 36 with sperical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 1 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 4 amorphic with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	· · · · · · · · · · · · · · · · · · ·	0/1/04 11:0
1 36 with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 4 amorphic with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	· · · · · · · · · · · · · · · · · · ·	
4 amorphic with spherical with cylind\$5 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0		
65 9 and 36 USPAT; US-PGPUB; IBM_TDB 9/1/04 11:0	· · · · · · · · · · · · · · · · · · ·	
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40 5024004 1011M DIAT 0/4/04/4/0	, , ,	
10 503 199 1. UKPN. USPAT 9/1/04 11.0	10 5031991.URPN. USPAT	9/1/04 11:0

	("Re33722" "4143940" "4203652" "4243399" "4253724"		
	"4307409" "4327963" "4337531" "4370021" "4440470"		
	"4495704" "4639075" "4674011" "4701013" "4708426"		
	"4720632" "4722081" "4763979" "4775214" "4780877"		
	"4784466" "4786132" "4799210" "4807954" "4832469"		
	"4919506" "4921320" "4931637" "4948221" "4955025"		
	"4966444" "4969702" "5031991" "5046817" "5054878"		
	"5066092" "5080506" "5080706" "5088803" "5108167"		
	"5140608" "5151810" "5181224" "5224111" "5237348"		
	"5256851").PN.	USPAT	9/1/04 11:0
	5031991.URPN.	USPAT	9/1/04 11:1
10	5031991.URPN.	USPAT	9/1/04 13:0
. 3	("3761184" "4671625" "4832464").PN.	USPAT	9/1/04 13:0
	5701373.URPN.	USPAT	9/1/04 13:1
_	30 and fiber	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:1
	30 and (fiber same focus)	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:1
	30 and (fiber same focus same collimat\$5)	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:4
	60 and (planar same waveguide)	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:4
	59 and (planar same waveguide)	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:4
	62 not 61	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:4
	(master adj oscillator adj power adj amplifier) or MOPA	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:4
12	9 and 64	USPAT; US-PGPUB; IBM_TDB	9/1/04 15:4
6100	((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.	USPAT; US-PGPUB; IBM_TDB	9/1/04 7:4
26	4475788.URPN.	USPAT	8/31/04 17:1
15	4564268.URPN	USPAT	8/31/04 17:1
	5319496.URPN.	USPAT	8/31/04 17:1
17	("4180325" "4606622" "5243619" "5294971" "5319496"	33.7.1	0.0 0
0	"5352886" "5825476" "5896194").PN.	USPAT	8/31/04 17:0
0	·	USPAT	0/3/1/04 17.0
	("4884281" "5168401" "5243619" "5418880" "5825551"		
	"5887096" "5987794" "6044096" "6151168" "6243210"		0/04/04 47 0
	"6529542" "2002/0015558" "2002/0159156").PN.	USPAT	8/31/04 17:0
	6151168.URPN.	USPAT	8/31/04 17:0
13	5243619.URPN.	USPAT	8/31/04 17:0
	("4061814" "4738532" "5168401" "5243619" "5369661"		
9	"5418880" "5515391" "5517328" "5544184").PN.	USPAT	8/31/04 16:5
	("3396344" "4185891" "4318594" "4530574" "4655590"		
	"4707584" "4763975" "4818062" "4826269" "4978197"		
	"4990741" "5066100" "5120926" "5127068" "5168401"		
	"5258989" "5268978" "5365032" "5463534" "5541951"		
24	"5715270" "5717804" "5886313" "6044096").PN.	USPAT	8/31/04 16:4
44	("3396344" "4530574" "4547038" "4822151" "5058981"	001 A1	0/01/04 10.4
•		HODAT	0/04/04 40:4
8	"5216562" "5369661" "5453814").PN.	USPAT	8/31/04 16:4
	("3974507" "4203652" "4253735" "4318594" "4530574"		
7	"4589115" "4656641").PN.	USPAT	8/31/04 16:4
	("3317267" "3701044" "4203652" "4235507" "4246548"		
	"4253735" "4255717" "4272651" "4280108" "4306278"		
12	"4318594" "4323297").PN.	USPAT	8/31/04 16:4
23	4530574.URPN.	USPAT	8/31/04 16:4
	("3701044" "3974507" "4203652" "4253735" "4255717"		
ρ	"4318594" "4323297" "4530574").PN.	USPAT	8/31/04 16:4
	4318594.URPN.	USPAT	8/31/04 16:3
20		OUL AT	0.01704 10.0
4.5	(collimat\$4 with lens) and (cylindrical with lens) and (diode same fiber	HEDAT, HE DODUB, IDM TOD	0/24/04 46:2
	same x\$2axis same y\$2axis)	USPAT; US-PGPUB; IBM_TDB	
1	("5319528").PN.	USPAT; US-PGPUB; IBM_TDB	8/31/04 16:3

("3273072" "3590248" "3736518" "4185891" "4293827" "4318594" "4397525" "4475788" "4520471" "4575194" "4609258" "4641912" "4643538" "4681396" "4688884" "4689482" "4701005" "4725131" "4726645" "4732448" "4759616" "4761059" "4763975" "4768184" "4770653" "4791631" "4807954" "4813762" "4901330" "4905690"		
32 "4922502" "5081637").PN.	USPAT	8/31/04 16:3
(((359/642,641,668,793-795) or (385/52,31,33,38,34,92-94)).CCLS.)		
15 and (lens same astigmat\$5 same axis same fiber)	USPAT; US-PGPUB; IBM_TDB	8/31/04 16:3
("4203652" "4235507" "4318594" "4530574" "4744089"	_	
"4951293" "4953166" "5003550" "5088105" "5111153"		
"5175643" "5237636" "5249190" "5265116" "5270853"		
16 "5278851").PN.	USPAT	8/31/04 16:2
19 4942583.URPN.	USPAT	8/31/04 16:0
23 4530574.URPN.	USPAT	8/31/04 15:5
40 4203652.URPN.	USPAT	8/31/04 15:5
("2303113" "3652150" "3749477" "3751138" "4017160"		
"4203652" "4253735" "4318594" "4362367" "4530574"		
"4744073" "5095386" "5181224" "5467335" "5499262"		
19 "5844723" "5973853" "6088168" "6088170").PN.	USPAT	8/31/04 15:5
49 lens same astigmat\$5 same axis same fiber	USPAT; US-PGPUB; IBM_TDB	8/31/04 15:5

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